



A.D. 1635 . . . N^o 83.



P A T E N T

OF

THORNESE FRANCKE.

FURNACES AND KILNS.

L O N D O N .

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Furnaces and Kilns.

FRANCKE'S PATENT.

CHARLES, by the grace of God King of England, Scotland, Fraunce, and Ireland, Defendor of the Faith, &c., to all to whom theis p^sent^e shall come, greeting.

WHEREAS wee are given to vnderstand, by the humble peti^con of our
5 welbeloved subiect Captayne THORNESE FRANCKE, that vpon an overture
formerlie p^sented unto vs by him for "THE SAUEING OF FEWELL, LABOUR, IREON,
AND TYME HERETOFORE UNNECESSARILY SPENT AND CONSUMED BY BREWERS, DYERS,
SOPE BOYLERS, SALT MAKERS, AND OTHERS OF LIKE NATURE, WHEREBY ALSOE THE AN-
NOYANCE OF SMOAKE IS MUCH AVOYDED," w^{ch} vpon triall thereof made hath beene
10 well approved, and that to reward his indeavours and service therein we haue
graunted him for a tearme of yeares the benefitt of his sayd Inven^con by L^res
Patent^e of priviledge of the Seacond of November, in the nynthe yeare of our
raigne, sithence w^{ch} tyme the sayd Inven^con being found cōmodious and
convenient is generally allowed of and vsed to the greate benefitt of our people,
15 and the p^serva^con of wood, fewell, and iron; and whereas the sayd Captayne
Thornese Francke by his sayd peti^con hath further humbly shewed vs that
great abundance of tymber, wood, cole, and other fewell is now vsed and
consumed within our dominions in melting of all sort^e of mynerall^e, as copper,
tynne, lead, iron, glasse, and other thing^e, and in the melting of mettals for
20 the casting of all sort^e of ordinance, and in iron mills and furnacies for the
same, and also in glasse houses, and in kylnes for makeing bricke, tyles,
earthen pott^e, and lyme, to the great and vnnecessarie destruc^con and decay

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of tymber, wood, coale, and other fewell, the sayd petiçoner by his Invençon being well able to melte all sort[℥] of theis mynerall[℥] and mettall[℥] without either water blast or foote blaste, with saueing more then a full third parte of the tymber, wood, coales, and fewell now vsed therein, and with much lesse labour and farre shorter tyme, whereby alsoe the great quantityes of ground 5 now vsed for theire pond[℥], and the abundance of tymber now spent in makeing of theire dammes and pond head[℥], and continuall expence of tymber in mayneteyning of them and theire water courses, will be spared in great proporçon, and the labour for carrying their materiall[℥] to melting, and the annoyances of the highwayes thereby occasioned, shalbe alsoe prevented or 10 much lessened, and the vnnecessarie consumpçon and wast of tymber, wood, and coale much saved, for our honour and the benefitt of theis our realmes and dominions, and therefore hath humbly besought vs to be pleased, by our L^{ers} Patent[℥] vnder the Great Seale of England, to graunte vnto him the sole vse and benefitt of his sayd Invençon throughout our realmes of England, Ireland, 15 and other our dominions, with prohibiçon to all others to vse the same for fouerteene yeares, yeilding vnto vs full three part[℥] in tenne of all benefitt or gayne he shall hereafter dureing the sayd tearme make or receaue by the same, w^{ch} sayd device and invençon of the sayd Thornese Francke is effected and donne by altering the formes of the melting furnacyes, and by contracting the 20 ayre, and causing and bringing in wynd into the sayd furnacies, w^{ch} shall make the fyers burne with as much vyolence as any blast whatsoever, as wee are informed.

KNOW YEE, therefore, that wee, takeing into our princely consideraçon the good indeavours and service of the sayd Captayne Thornese Francke in 25 the p^misses, & willing to cherish and giue encouragem^t to our subiect[℥] in the study and investigaçon of such lawfull and cōmendable artes, misteries, and invençons as may be of good vse and p^fitt to vs and our subiect[℥], of our espetiall grace, certaine knowledge, and meere moçon, and to recompence the charge, industrie, and paynes of our sayd subiect bestowed and expended in and 30 about the sayd Invençon, have given and graunted, and by theis p^sent[℥], for vs, our heires and successors, doe giue and graunt, vnto the sayd Captaine Thornese Francke, his executors, administrators, and assignes, full and sole power, priuiledge, licence, and authority, to vse, exercise, and put in practise, within our realmes of England and Ireland and dominion of Wales, the said 35 Invençon, arte, and misterie for the makeing of all sort[℥] of furnacies for melting or smelting of copper, tynne, lead, iron, glasse, and all other minerall[℥] whatsoever, and for the melting of mettall[℥] for y^e casting of all sort[℥] of ordinance, and also for y^e makeing of kilnes for the burning of brick[℥], tyles,

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earthen pott℄, and lyme, according to the ways and meanes by him so devised as aforesaid; and we doe further, for vs, our heires and successors, giue and graunt to the sayd Thornse Francke, his executors, administrators, and assignes, full power and authority to haue, take, receaue, & enioy all such
5 sōme & sōmes of mony and other benefitt℄, pffitt℄, and advantages whatsoev^r, as shall or may, by meanes of the sayd invencon, arte, or misterie, be vsed in or about the said pmisses, or any of them, from tyme to tyme be lawfully had, made, acquired, or gotten, for & dureing the tearme of yeares hereafter expressed, to haue, hould, pceaue, receaue, take, & enioy the sayd lycences,
10 powers, priuiledges, and authorities as aforesayd, & all & every sōme & sōmes of money & other proffitt℄, benefitt℄, & advantag℄ thereof or thereby ariseing, or by meanes thereof to be lawfully had, made, acquired, or gotten vnto the sayd Thornese Francke, his executors, administrators, & assignes, to his & their proper vse & behoofe, for & dureing the terme of fourteene yeares from
15 the date of theise p^sent℄ next & i^mmediatly ensueing, fully to be compleate & ended, yeilding & paying therefore yearly, & the sayd Thornese Francke, for him, his executors, administrators, & assignes, doth hereby covenant, p^mise, & agree to and with vs, our heires & successors, to pay vnto vs, our heires & successors, into the severall receipt℄ of our Exchequer℄ of our realmes
20 of England & Ireland respectiue, att the Feast of Saint Michaell th'Archangel℄ yearly, or within forty days after the sayd feast, full three part℄ in tenne part℄ to be devided of all such sumes of mony & pffitt℄ as by him the sayd Thornese Francke, his executors, administrators, deputies, or assignes, from tyme to tyme shalbe had, made, acquired, or gotten by meanes of the
25 sayd inven^{con}, art, or misterie, or the shewing & teaching the vse thereof as aforesayd; and the other seaven part℄ thereof we will & by theise p^sent℄, for vs, our heires & successors, doe graunt vnto the said Thornese Francke, his executors, administrators, & assignes, and to the intent that the saide Thornese Francke, his executors, administrators, & assignes, may the better
30 receaue, haue, & take for the terme hereby graunted, the full and whole benefitt of the sayd inven^{con}, art, & myserie as we intend by theise p^sent℄; we doe, therefore, hereby declare & signifie our expresse will & royall pleasure to be, & doe, for vs, our heires and successors, straightly charge & inhibite all & every our subiect℄, & all and every
35 other pson and psons whatsoever, that they or any of them dureing the terme before graunted, by any wayes or meanes, either directly or indirectly, shall not vse, exercise, erect, forme, make, imitate, or practice the sayd inven^{con}, art, myserie, ways, or meanes by him so devised & found out, as aforesayd, for, touching, or concerning the severall pmisses before

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mençoned, or any of them, within our sayd realmes of England & Ireland & dominion of Wales, or any of them, without the especiall licence of the sayd Thornese Francke, his executors, administrators, or assignes, vnder his or their hand & seales first had & obteyned in that behaulfe, vpon payne of our indignaçon & displeasure, & such further penalties & punishmēt 5 as shall or may bee inflicted on them for their neglect or contempt of our royall cōmaundmēt in that behaulfe; & wee doe by theise p̄sent℄, for vs, our heires & successors, give power & authority vnto the sayd Thornese Francke, his executors, administrators, and assignes, with the assistance of constables or other lawfull officers, att convenient tyme & tymes to enter into & search 10 in all or any place or places within our sayd realmes & dominions where any iust cause of suspicōn shalbe, for the discovery & finding out of such as shall putt in practice or vse the said arte, mistery, invençon, wayes, or meanes by the sayd Thornese Francke so devised as aforesayd, in any of the p̄misses, contrary to the true intent & meaning of theise p̄sent℄, to the end the 15 delinquent℄ being discovered may, for their contempt of our royall cōmaundment in the p̄misses, receaue condigne punishment, according to their demeritt℄; and wee doe by theise p̄sent℄, for vs, our heires & successors, will & cōmaund the Tresurer, Chauncellor, Under Trēr Chamberlaynes, & Barrons of the Exchequers, & all & singuler mayors, sheriff℄, iustices of peace, 20 bayliff℄, cunstables, headboroughs, & other officers & ministers of vs, our heires & successors, of our severall realmes & dominions respectively for the tyme being, that they & every of them, in their severall offices & places respectively, be from tyme to tyme, dureing the terme aforesayd, ayding, helping, & assisting to the sayd Thornese Francke, his executors, adminis- 25 trators, & assignes, & his & their deputies, servant℄, workemen, & agent℄, in all thing℄ in & about the accomplishment of our pleasure herein declared, & in the exercise and execuçon of the same, and that they nor any of them doe att any tyme hinder, molest, or interrupt the sayd Thornese Francke, his executors, administrators, or assignes, or his or their deputies, servant℄, 30 agent℄, or workemen, or any of them, in anywise concerning the p̄misses, as they tender our pleasure & will answer the contrarie att their perrill℄, and theise our Letters Pattent℄, or the inrollment of them, shalbe vnto them, & every of them respectiuelly, sufficient warrant in that behaulfe; and to the intent that the sayd three part℄ (in tenn part℄ to be divided, of all sōmes of 35 mony, benefitt, & gayne, arysing, or accrewing by the sayd invençon, art, or mysterie, & the practice thereof in the severall p̄misses aforesayd, or any of them, may from tyme to tyme, dureing the continuance of theis our p̄sent graunt of priuiledge, be to vs, our heires & successors, duly answered & payd

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as aforesayd, our will and pleasure is, and the sayd Thornese Francke, for him, his executors, administrators, & assignes, & every of them, doth covenant, promise, & agree to & with vs, our heires & successors, that he & they, or his, their or some of their deputy or deputies shall & will, once in every
5 yeare dureing the terme aforesayd, that is to say, in the terme of Saint Michaell yearly, giue render, yeild, & make a iust and true accompt vpon oath, before one or more of the Barrons of the Exchequer of vs, our heires & successors, of our severall realmes & dominions respectively for the tyme being, according to the course of the sayd court, of all such sōmes of money,
10 pffit[℥], benefitt[℥], & advantages whatsoever, as by him or them shalbe acquired, obteyned, & gotten by the vse, exercise, & practice of the sayd inven[̃]con, arte, & mystery before men[̃]coned, or for the teaching, shewing, licensing, or allowing the vse or practise thereof, to any pson or psons whatsoever, and vpon such accompt & accompt[℥] soe made, given, & declared
15 as aforesaide, shall and will well and truely pay vnto vs, our heires and successors, full three partes (in tenn partes to be devided) thereof into our receipt[℥] of Exchequer respectiuey, according to the true intent and meaning of theis p[̃]sent[℥]; and further, of our more especiall grace, certaine knowledge, and meere mo[̃]con, for us, our heires and successors, wee doe by theis p[̃]sent[℥] authorise,
20 require, and charge aswell the Lord Chauncellor and Lord Keeper of our Great Seale of England for the tyme being, and the Lord Chauncellor and Lord Keeper of our Great Seale of Ireland for the tyme being, as alsoe all other our officers and ministers whatsoever for the tyme being whom yt shall or may concerne, & every of them respectiuey, that they and everie of them respectiuey
25 doe make or cause to be made vnto the sayd Thornese Francke, his executors, administrators, and assignes, and his and their deputyes, such and soe many L[̃]ers Patent[℥], duplicates, constat[℥], and exemplifica[̃]cons, vnder the several seales of our sayd realmes of England and Ireland, and eyther of them, of and concerning all and singuler the licenses, priviledges, powers, authorities,
30 and other thing[℥] in theis p[̃]sent[℥] conteyned, to be had, taken, executed, and pformed in our sayd realmes of England and Ireland, and the dominion of Wales, and everie of them, as he, the sayd Thornese Francke, his executors, administrators, or assignes, or his or their deputyes, or any of them, shall reasonably request in that behauffe; and theis p[̃]sent[℥], or the inrollment
35 thereof, shalbee to them and everie of them a sufficient warrant and discharge in that behaulfe, without any further or other warrant from vs, our heires and successors, to be in that behaulfe had, obteyned, or procured; and further, we will and by theis p[̃]sent[℥] for vs, our heires and successors, doe graunt that theis our L[̃]ers Patent[℥], or the inrollment thereof, shalbe in all thing[℥] firme,

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good, sufficient, and availeable in the lawe to and for all the intents and purposes before menconed, and shalbe adiudged most strongly against vs, our heires and successors, and most availeable and beneficially to and for the sayd Thornese Francke, his executors, administrators, and assignes, in all our court^e of justice in either of our sayd realmes of England and Ireland, or 5 elsewhere, without any other or further confirmacon, license, or toleracon from vs, our heires and successors, hereafter in any wyse to be sued for, had, made, p^{ro}cured, or obteyned, notwithstanding the not nameing or describeing, or the not certaine nameing or describeing, the sayd invencon, arte, or misterie, or the fashions or formes of the sayd furnacies to be erected, made, or vsed in or 10 about the p^{ro}misses, or any of them, and notwthstanding any other incertaintyes in theis p^{re}sent^e conteyned in the not nameing or not rightly nameing of the natures, formes, kind, and quallities of the p^{ro}misses hereby graunted, or any parte thereof, or any act, statute, lawe, ordinance, p^{ro}vision, p^{ro}clamacon, or restriccon, or any other matter, cause, or thing whatsoever to the contrarie 15 thereof in any wise notwithstanding; provided alwayes, that if the sayd three part^e in tenn partes to be devided of the sayd s^{ome}s of mony, benefitt^e, p^{ro}fit^e, and advantages, from tyme to tyme dureing the sayd tearme of yeares hereby graunted, ariseing, or to be levyed or made of or by the meanes of the sayd licences, graunt^e, and priviledges hereby graunted, or any of them, shall not 20 be duely answered and payd to vs, our heires and successours, within the space of fortie dayes next after the same Feaste of Saint Michaell the Arkhangell, yearly into our receipt^e of Exchequer as aforesayd, that then this our p^{re}sent graunt, and everie clause, matter, and thing therein menconed, shalbe vtterly voyde and of none effect, any thing therein conteyned to the contrarie notwith- 25 standing; provided also, that if the sayd Thornese Francke, his executors, administrators, or assignes, shall not inroll or cause to be inrolled this our p^{re}sent graunte in our Court^e of Exchequer as aforesayd, before the Clerke of the Pipe or other our officers there respectiuey for the tyme being, wthin sixe moneths after the date hereof, that then the sayd Thornese Francke, his 30 executors, administrators, and assignes, shall forfeit and pay vnto vs, our heires and successors, the s^{ome} of fortie pound^e (n^oie pene), and soe for everie sixe moneths after, in w^{ch} the sayd L^ors Patent^e shall not be inrolled as aforesaid, the sayde Thornese Francke, his executors, administrators, and assignes, to forfeyte and pay the like s^{ome} of fortie pound^e (n^oie pene) vntill such 35 inrollment shalbe made as aforesaid; provided alsoe, and our will and pleasure is, that if att any tyme dureing the sayd tearme of foureteene yeares hereby graunted, yt shall appeare to vs, our heires or successors, or to the Lord^e and others of the Privey Councell, of vs, our heires and successors, that this our

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p̄sent graunt or L̄ers Patent[℥] of license and priviledge is contrarie to our
 lawes, or in any sorte mischeivous or inconvenient to the state of this our
 realme of England, then vpon significac̄on, heareing, and declaraçon, to be
 made to vs, our heires and successors, vnder our signett or privy seale, theis
 5 our Letters Patent[℥] shall forthwith cease, determine, and be vtterly voyd to
 all intent[℥] and purposes, anything in theis p̄sent[℥] conteyned to the contrarie
 notwithstanding, although expresse mençon, &c.

In wittnesse whereof, &c. Wittnesse our selfe att Cañburie the Five and
 twentieth day of June.

10 P b̄re de privato sigillo, &c.

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